

Figure 1 Conventional Noise Feedback Coding

4050

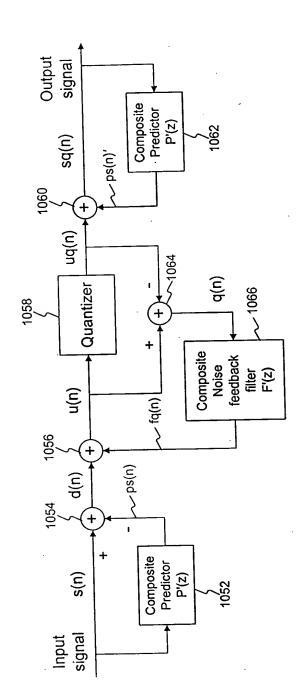


Figure 1A Noise Feedback Coding Using Composite Short-Term and Long-Term Predictors and Composite Short-Term and Long-Term Filter

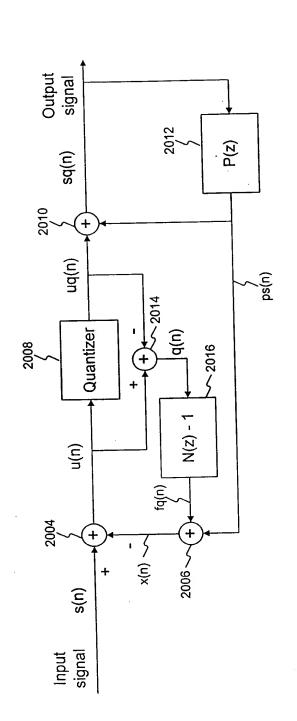


Figure 2 An alternative form of conventional Noise Feedback Coding

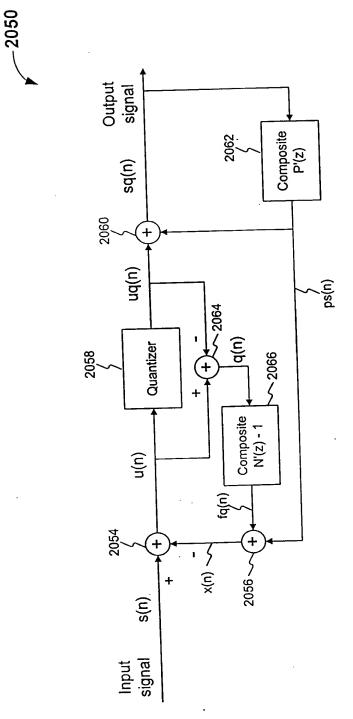
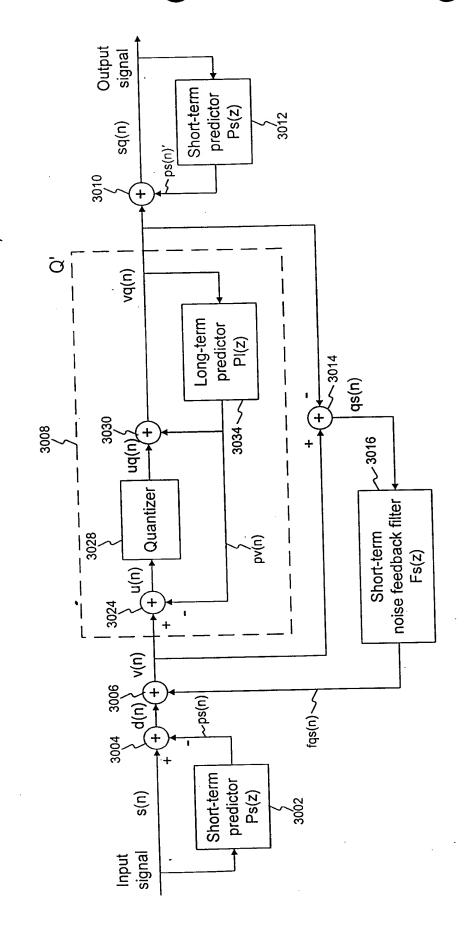


Figure 2A Noise Feedback Coding Using Composite. Predictor and Composite Noise Filter



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Figure 3 Noise Feedback Coding with short-term and long-term prediction but only short-term noise spectral shaping

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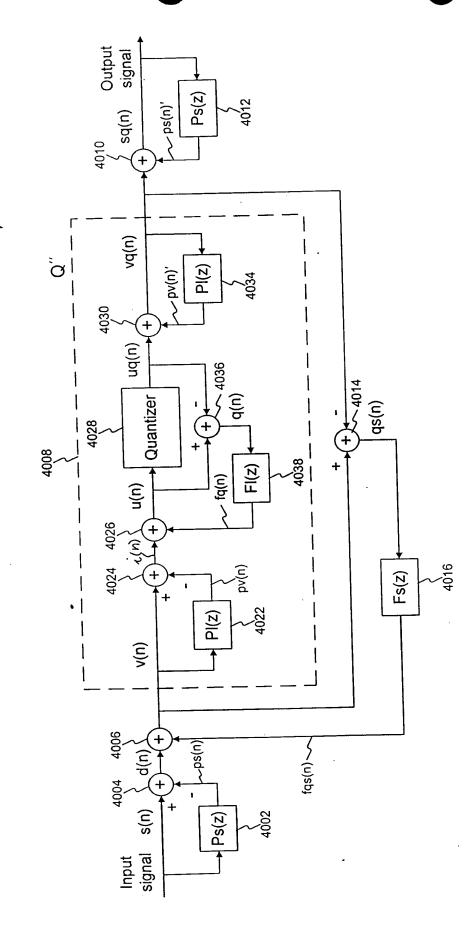


Figure 4 Nested two-stage Noise Feedback Coding structure with short-term and long-term prediction and short-term and long-term noise spectral shaping

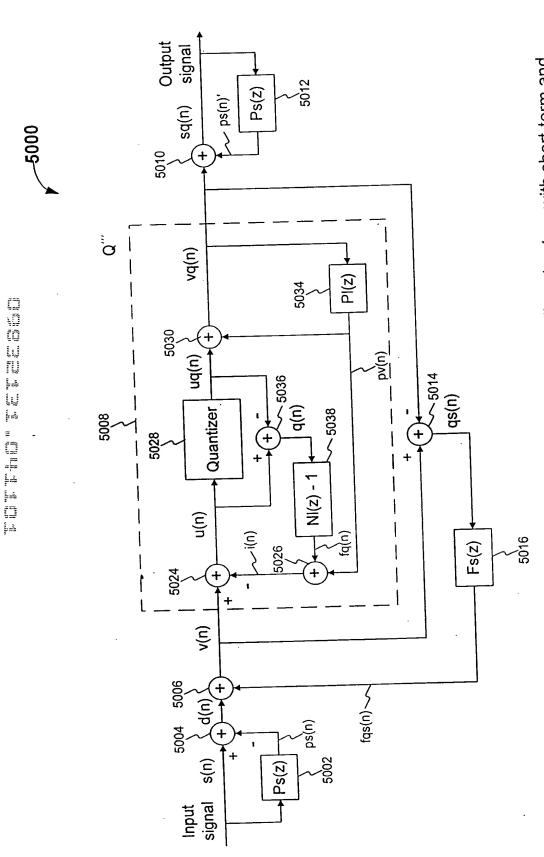


Figure 5 An alternative nested two-stage Noise Feedback Coding structure with short-term and long-term prediction and short-term and long-term noise spectral shaping

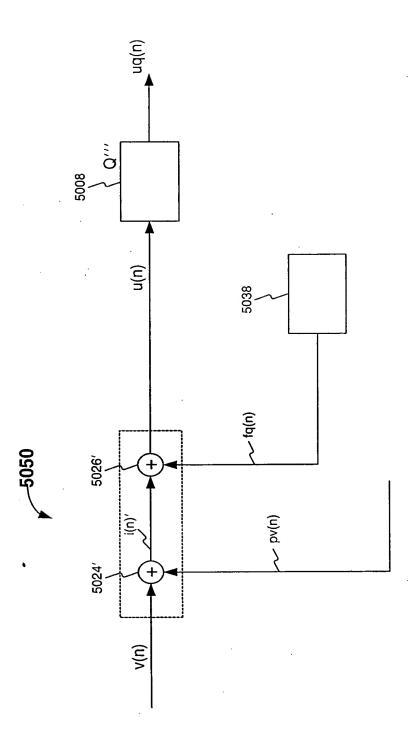


FIG. 5A

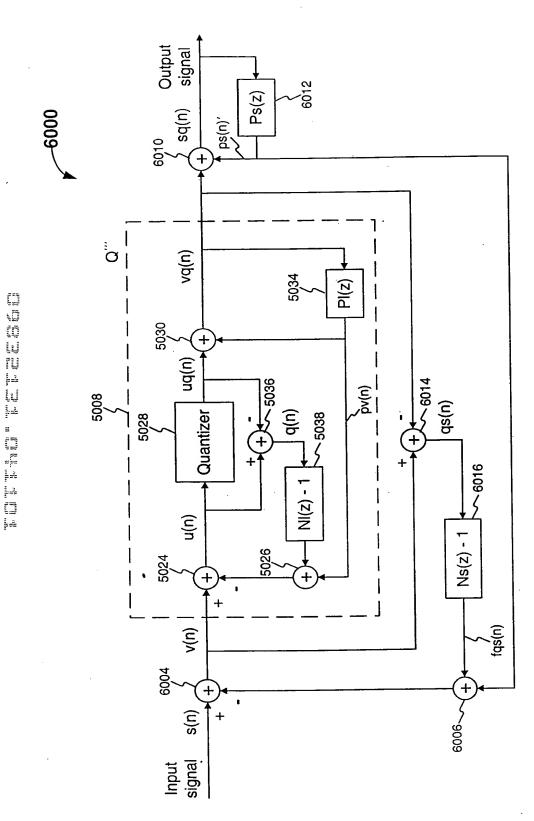
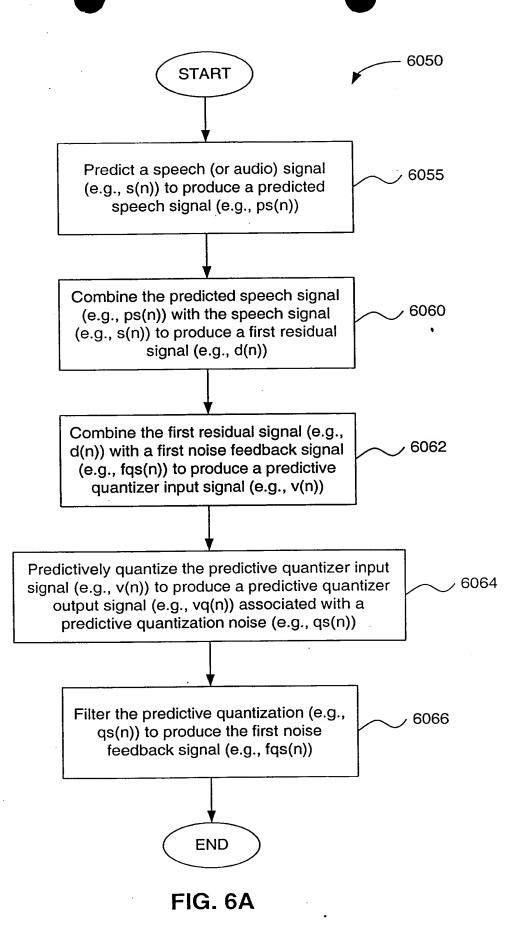
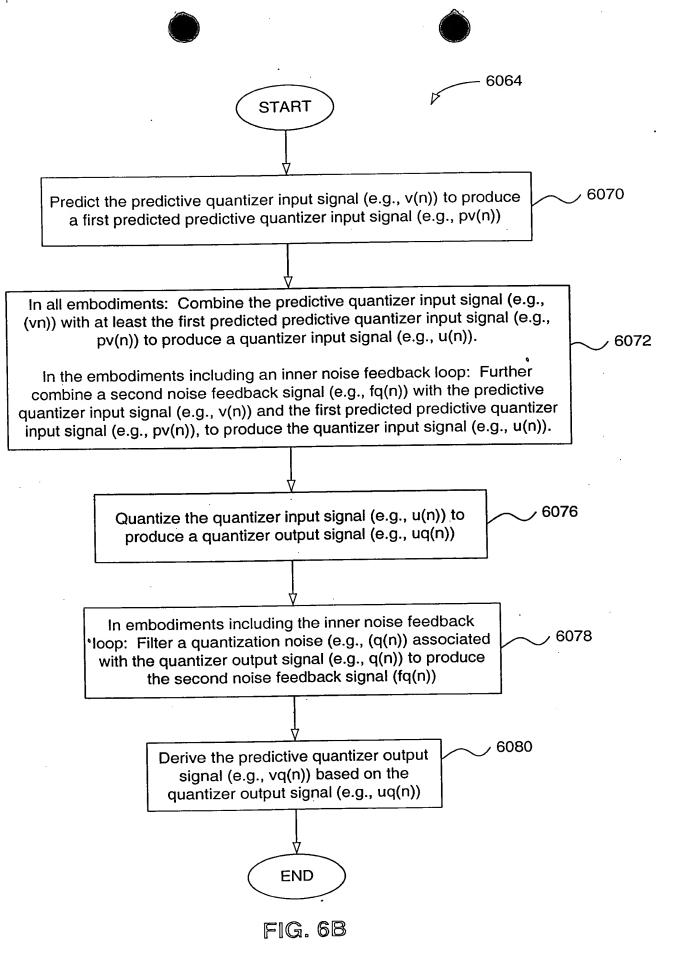


Figure 6 Another alternative nested two-stage Noise Feedback Coding structure with short-term and long-term prediction and short-term and long-term noise spectral shaping



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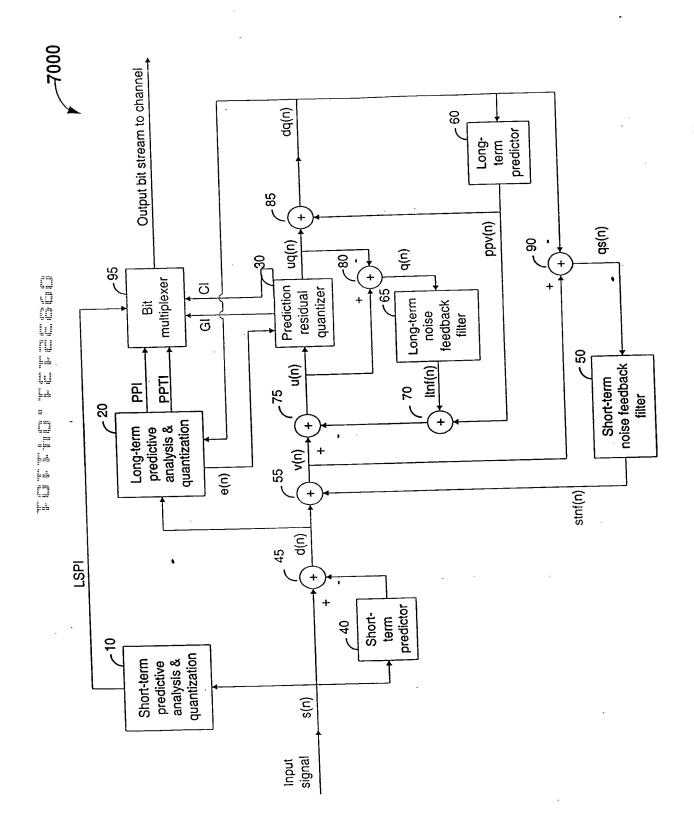


Figure 7 Encoder of a nested two-stage noise feedback codec (TSNFC)

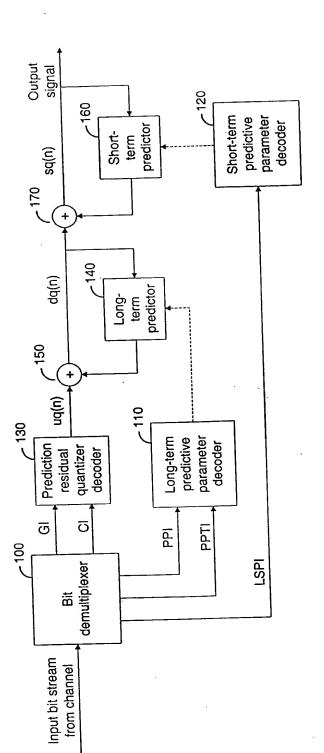


Figure 8 Decoder corresponding to the TSNFC encoder in Fig. 7

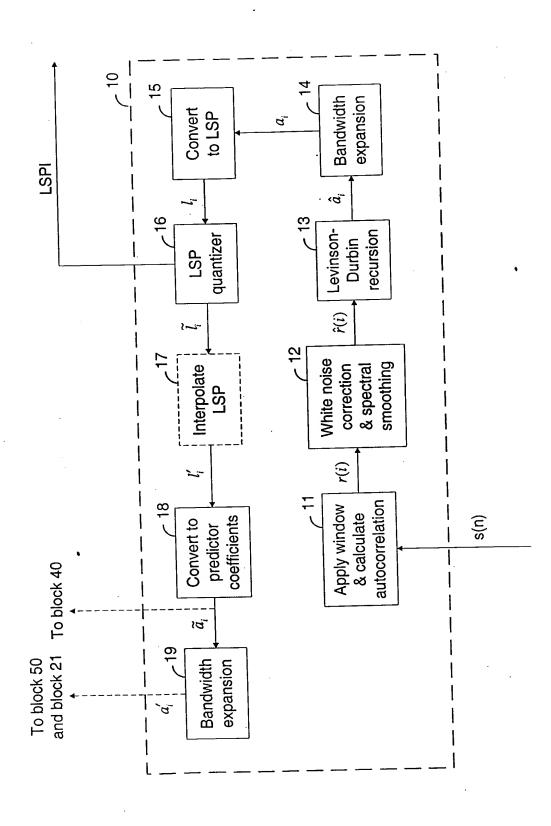
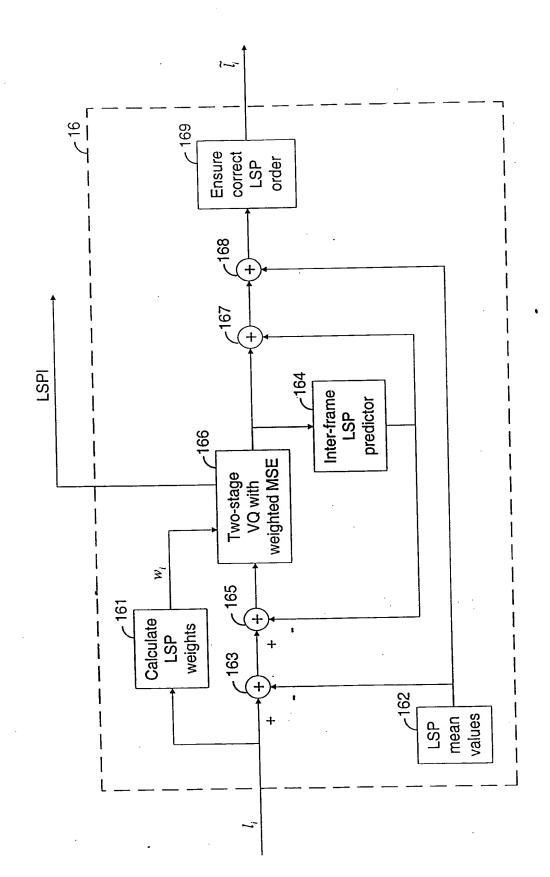


Figure 9 Short-term predictive analysis and quantization (block 10)



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Figure 10 LSP quantizer (block 16)

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Figure 11 Long-term predictive analysis and quantization (block 20)

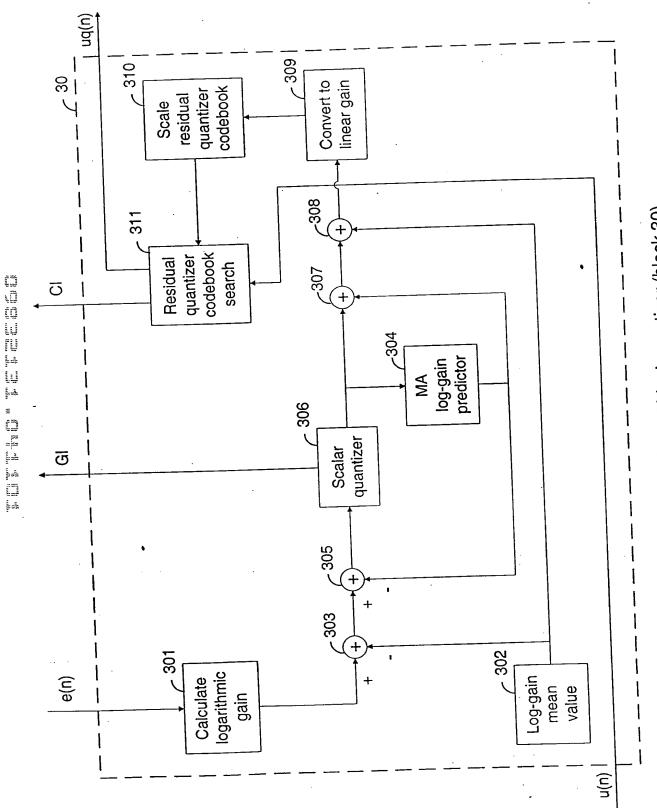


Figure 12 Prediction residual quantizer (block 30)

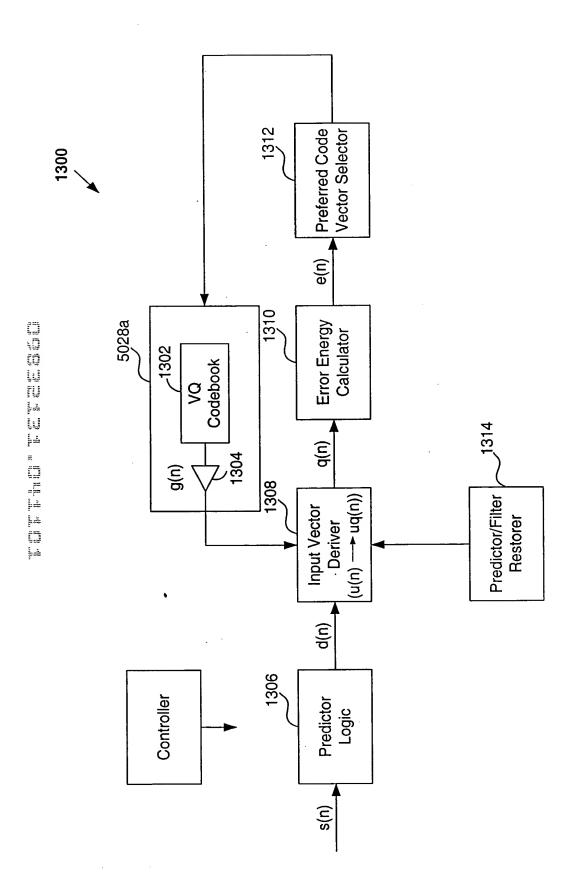


FIG. 13/

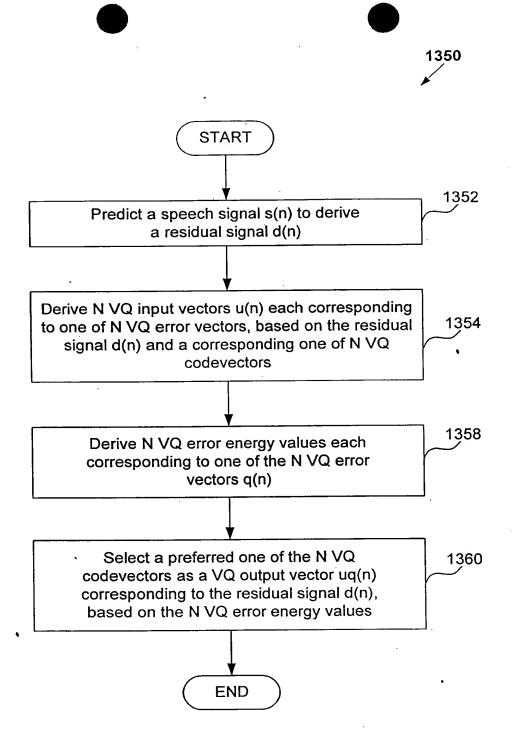


FIG. 13B

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The portion of the codec structure that is used in prediction residual VQ codebook search of the two-stage noise feedback codec of Fig. 5.

FIG. 13C

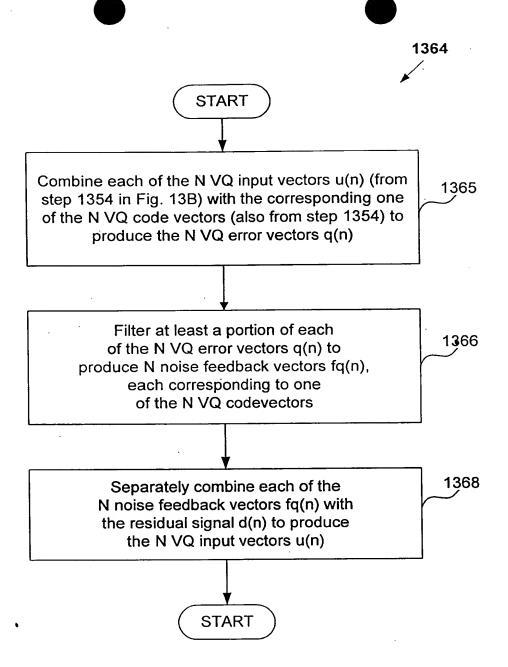


FIG. 13D

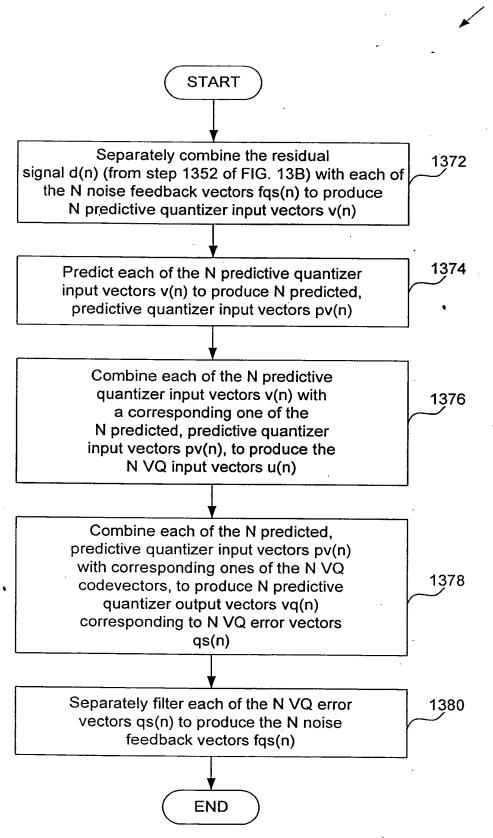


FIG. 13E

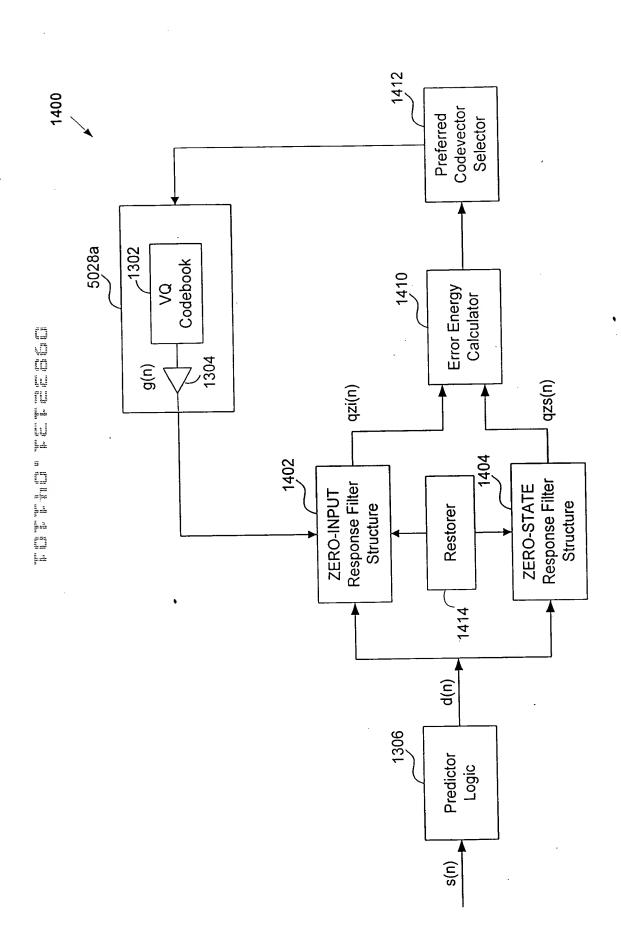


FIG. 14A

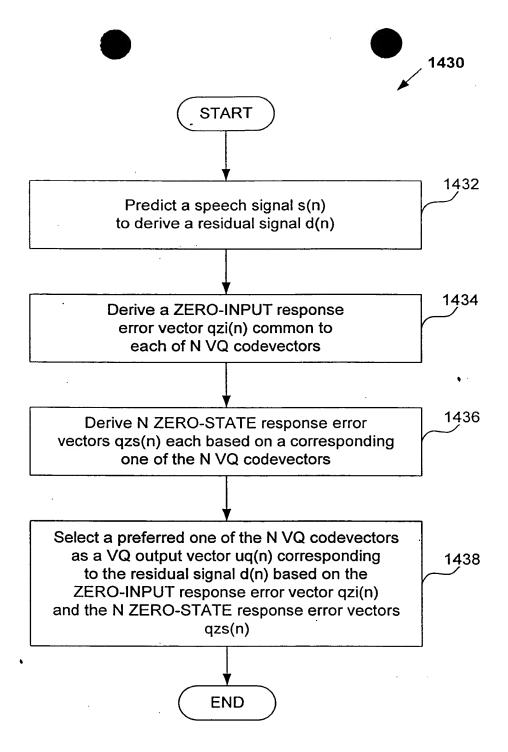
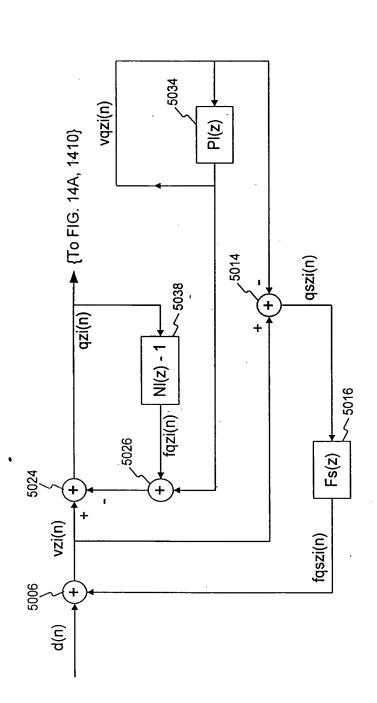


FIG. 14B



Filter structure during the calculation of the zero-input response of q(n) of Fig. 13C.

FIG. 140

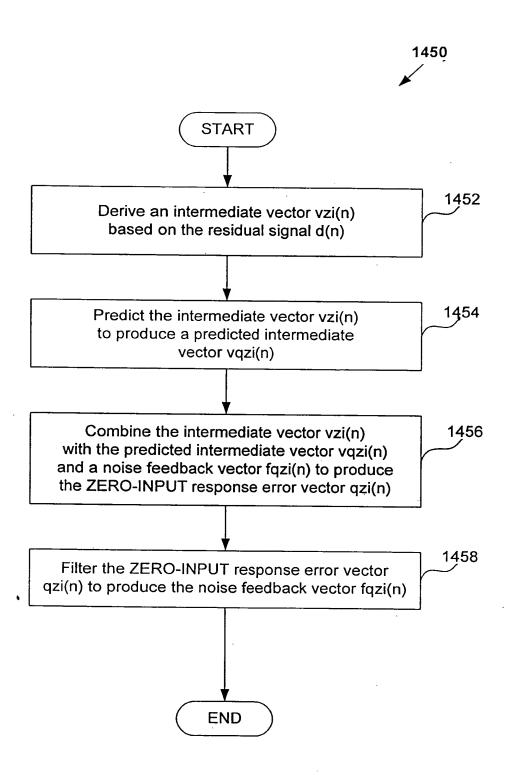


FIG. 14D

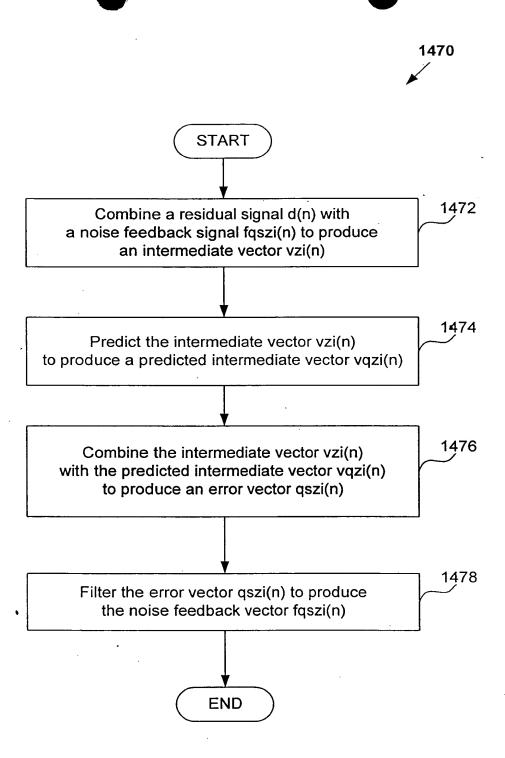
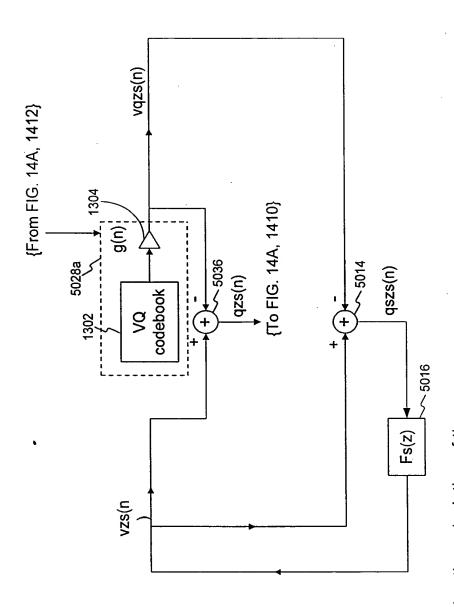


FIG. 14E



Filter structure during the calculation of the zero-state response of q(n) in Fig. 13C.

FIG. 15A

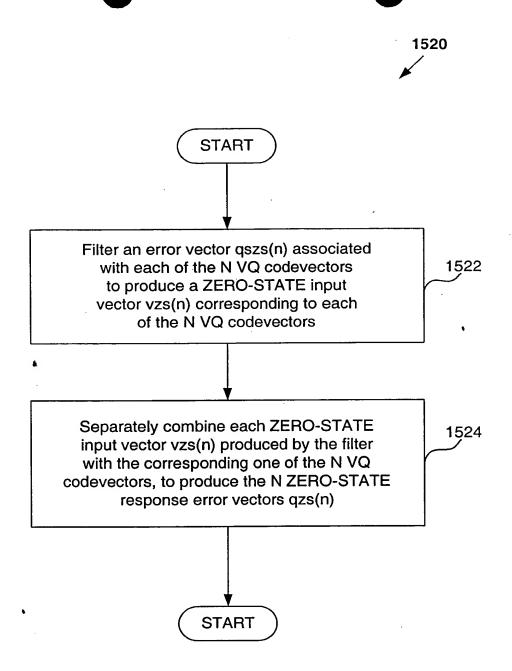
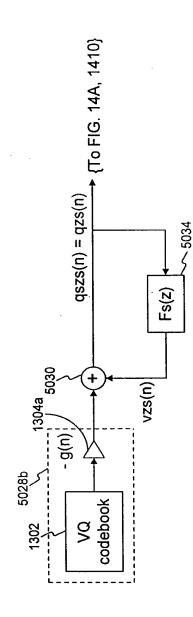


FIG. 15B





A filter structure equivalent to the structure in Fig. 15A.

FIG. 16/

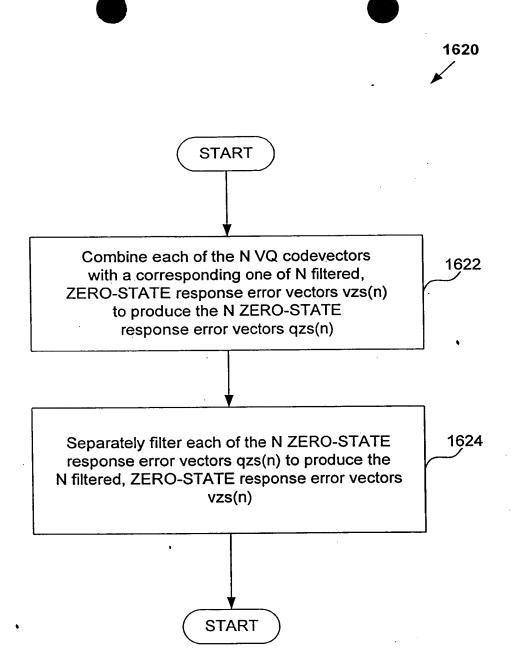


FIG. 16B

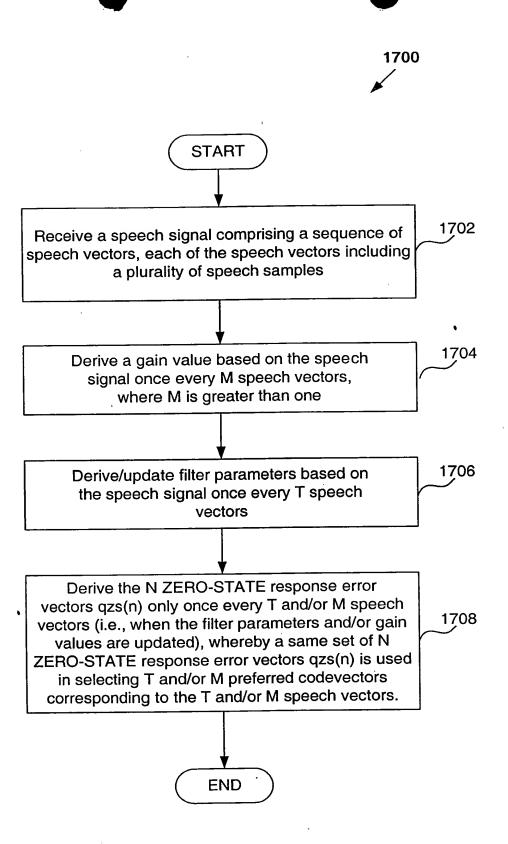


FIG. 17

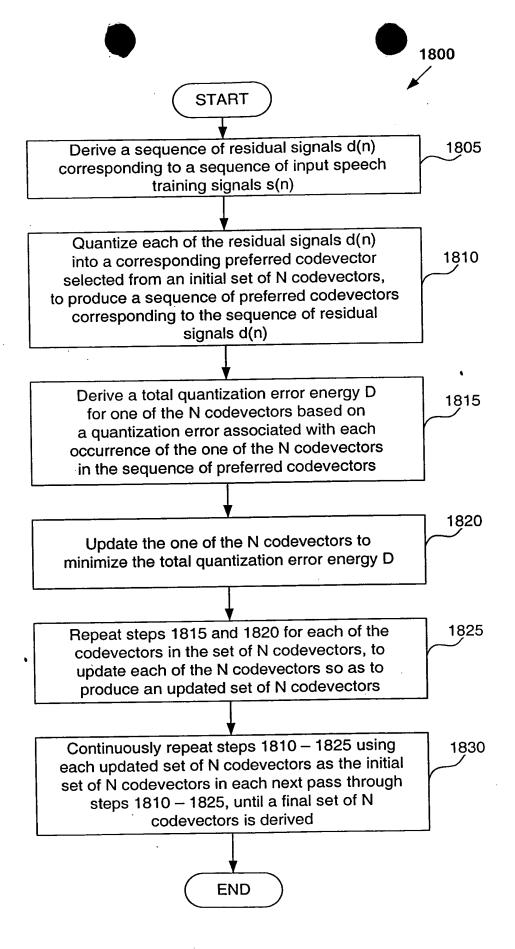


FIG. 18

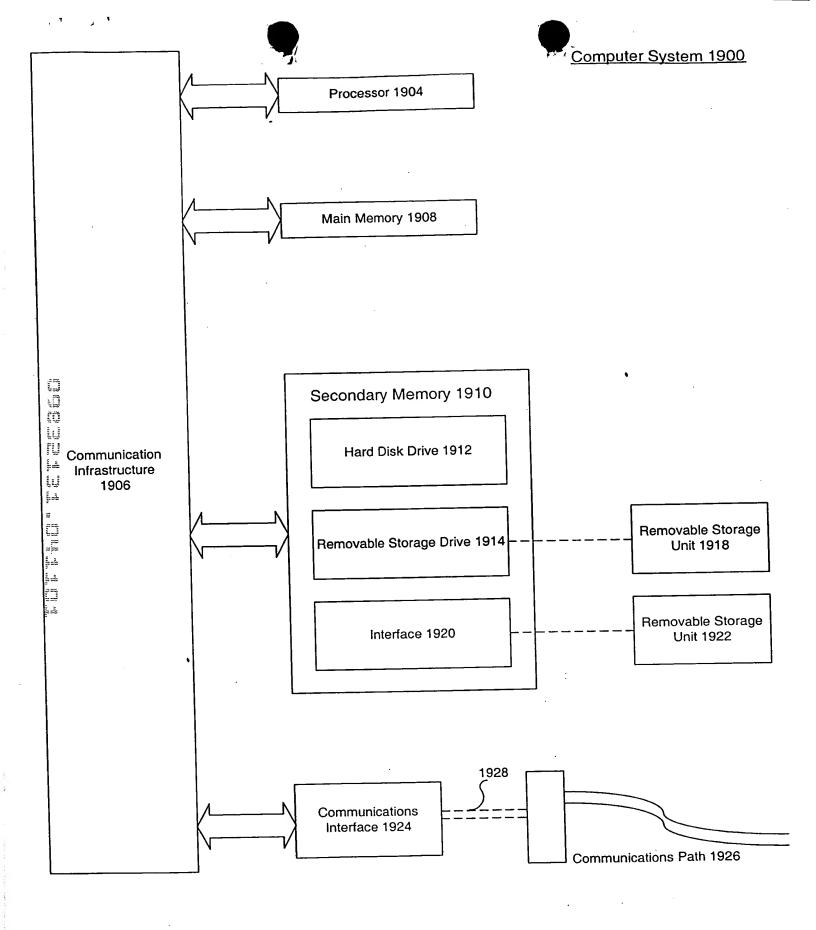


FIG. 19